

```

1  package socialmedia;
2
3  import java.util.ArrayList;
4  import java.io.Serializable;
5
6  public class Account implements Serializable{
7      int accountID;
8      String handle;
9      String description;
10     int postCount;
11     int endorseCount;
12     ArrayList<Post> posts;
13     static int nextID = 0;
14
15     /**
16      * issue the next available ID
17      */
18     static int issueNextID(){
19         return nextID++;
20     }
21
22
23     /**
24      * Constructor
25      */
26     public Account(String handle, String description){
27         setID(issueNextID());
28         setHandle(handle);
29         setDescription(description);
30         posts = new ArrayList<Post>();
31     }
32     public Account(String handle){
33         this(handle, "");
34     }
35
36     public void updateHandle(String handle){
37         setHandle(handle);
38     }
39
40     public void updateDescription(String description){
41         setDescription(description);
42     }
43
44     public void addPost(Post post){
45         posts.add(post);
46     }
47
48     public ArrayList<Post> getPosts(){
49         return posts;
50     }
51
52     public void increaseEndorsements(){
53         endorseCount++;
54     }
55
56     public String showAccount(){
57         return "" +
58             "ID: " + accountID + "\n" +
59             "Handle: " + handle + "\n" +
60             "Description: " + description + "\n" +
61             "Post count: " + postCount + "\n" +
62             "Endorse count: " + endorseCount + "\n";
63     }
64
65     //getters and setters
66
67     public int getID(){
68         return accountID;
69     }

```

```
70     private void setID(int id){
71         this.accountID = id;
72     }
73
74     public String getHandle(){
75         return handle;
76     }
77     private void setHandle(String handle){
78         this.handle = handle;
79     }
80
81     public String getDescription(){
82         return description;
83     }
84     private void setDescription(String description){
85         this.description = description;
86     }
87
88     public int getEndorseCount() {
89         int numEndorsements = 0;
90         for (Post p : posts){
91             if(p instanceof Original || p instanceof Comment){
92                 numEndorsements += p.getNumEndorsements();
93             }
94         }
95         return endorseCount;
96     }
97
98     public int getPostCount(){
99         return posts.size();
100     }
101
102     public void removePost(Post p){
103         posts.remove(p);
104     }
105 }
106
```